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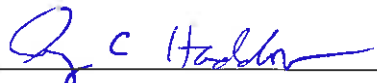


**Denali Training Fund Program  
Final Progress Report FY 11**

Funds for this project are provided by the Denali Commission and managed, in partnership, by the Alaska Department of Labor and Workforce Development. This report is due at project end or *no later than 30 calendar days* after the period of performance for this grant.

Name of Organization:	AVTEC-Alaska's Institute of Technology
Name of Project:	AVTEC Seward Wind Turbine
Grant Period:	January 2010 through June 2011
Contact Name:	Amy Haddow, Grant Administrator II
Contact Number:	(907) 224-6155

Certification: I certify that the information in this report is current, correct and true and in accordance with the terms and conditions of the agreement.

Signed by:  Dated 7/29/2011

**A. Narrative of Services:**

Provide a brief narrative of the activities your organization has conducted to meet the goals and objectives of the grant. Please include any photographs and success stories.

To meet the key grant objectives, AVTEC procured one Northwind 100 wind turbine with a 30M tower. The turbine included all components (blade sets, tower sections and nacelle) along with an appropriate warranty on the procured equipment.

AVTEC then worked with contractors for geotechnical analysis at the project site, structural engineering for the wind turbine foundation, and permitting for the physical installation of the turbine (not including permits for full electrical integration with the city electric utility).

After construction of a spread foot concrete foundation per structural designs, AVTEC contracted for the installation and stand of the Northwind 100 turbine, and erected the tower and its parts by the end of December, 2010. With funding from the Alaska State Energy Sector Partnership, AVTEC instructors have developed Wind Technician Training curriculum and

incorporated it in the school's Industrial Electricity program, Power Plant Operator class, and Advanced Power Plant Operator training.

#### **B. Performance Outcomes & Demographic Data:**

List the number of participants by their home community, the type of training, certification, completion date, and employer upon completion of training.

Number of Participants	Home Community	Type of Training	Type of Certification	Training Dates	Completion Date	Employer after Training
1	Quihagak	Power Plant Operator/Wind Turbine	(Researching potential industry certification)	3/28 - 5/27/11	5/27/11	AK Village Electric Cooperative (AVEC)
1	Iliamna	Power Plant Operator/Wind Turbine	"	3/28 - 5/27/11	5/27/11	AVEC
2	Hoonah	Power Plant Operator/Wind Turbine	"	3/28 - 5/27/11	5/27/11	AVEC
1	Chitina	Power Plant Operator/Wind Turbine	"	3/28 - 5/27/11	5/27/11	AVEC
1	Pilot Station	Power Plant Operator/Wind Turbine	"	3/28 - 5/27/11	5/27/11	AVEC
1	St. Mary's	Power Plant Operator/Wind Turbine	"	3/28 - 5/27/11	5/27/11	AVEC
2	Akiak	Power Plant Operator/Wind Turbine	"	3/28 - 5/27/11	5/27/11	AVEC
1	Noatak	Power Plant Operator/Wind Turbine	"	3/28 - 5/27/11	5/27/11	AVEC
2	King Cove	Power Plant Operator/Wind Turbine	"	3/28 - 5/27/11	5/27/11	AVEC
1	Tuntutuliak	Power Plant Operator/Wind Turbine	"	3/28 - 5/27/11	5/27/11	AVEC
1	Atka	Power Plant Operator/Wind Turbine	"	3/28 - 5/27/11	5/27/11	AVEC

1	Kwigillingok	Power Plant Operator/Wind Turbine	"	3/28 - 5/27/11	5/27/11	AVEC
1	Tununak	Advanced Power Plant Op/Wind Turbine	"	5/31-6/17/2011	6/17/2011	AVEC
1	Mekoryuk	Advanced Power Plant Op/Wind Turbine	"	5/31-6/17/2011	6/17/2011	AVEC
1	Savoonga	Advanced Power Plant Op/Wind Turbine	"	5/31-6/17/2011	6/17/2011	AVEC/City of Savoonga
1	Data unavailable at this time	Wind Technician component of IE Program	Industrial Electrician	8/15/2010 - 6/9/2011	6/9/2011	CH2M Hill
1	"	Wind Technician component of IE Program	Industrial Electrician	8/15/2010 - 6/9/2011	6/9/2011	Puffin Electric
1	"	Wind Technician component of IE Program	Industrial Electrician	8/15/2010 - 6/9/2011	6/9/2011	Coeur Alaska Kensington Mine
1	"	Wind Technician component of IE Program	Industrial Electrician	8/15/2010 - 6/9/2011	6/9/2011	Shelton Electric

#### B. Timeline of Grant Activities:

Did the grant progress as planned? If not, explain the causes and outcomes.

It did progress as planned except for the final objective: completing connection of the turbine to AVTEC' distribution system at the AVTEC industrial electricity facility. Although the Alaska Energy Authority contributed a significant amount of manpower and equipment to help connect the wind turbine to AVTEC's power plant, an additional transformer is needed to complete the connection. Manufacture and shipping of the transformer has been delayed, but it was scheduled for delivery on June 30, 2011.

- Were you able to complete the project within the budget? If not, explain the causes and outcomes.  
Yes.

### **C. Success Stories and Photographs:**

The Northwind 100 turbine purchased through the Denali Training Fund now stands as a prominent feature on Seward's skyline with the Denali Commission logo on its side, and community residents are enthusiastic about AVTEC's role in supporting the growth of alternative energy in Alaska. An article from the online Seward City News and photographs of the turbine installation are attached, along with photos of AVTEC instructors and Advanced Power Plant Operator student Charles Green getting trained in tower climbing safety.

**Please note:** The data collected in your Final Progress Report provides vital information that can have a direct impact on future funding for our grant programs. Forwarding your success stories and photos as part of our requests is further evidence of how job training is crucial to building a strong workforce for Alaska. Thank you in advance for your cooperation.